

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-29 (Canceled).

Claim 30 (New): An image processing apparatus comprising:

a converting unit that converts image area information, which includes color information, edge information, and halfdot information of an input image data, to coordinates of a rectangle;

an embedding unit that embeds the color information, which is included in the image area information, into the image data; and

an attaching unit that attaches the coordinates of the rectangle, as a tag information, to the image data that is embedded with the color information.

Claim 31 (New): The image processing apparatus according to claim 30, further comprising:

an extracting unit that extracts the tag information out of the image data that is attached with the tag information; and

an image processing unit that processes the image information based on the tag information that is extracted by the extracting unit.

Claim 32 (New): An image processing method comprising:

converting image area information, which includes color information, edge information, and halfdot information of an input image data, to coordinates of a rectangle;

embedding the color information, which is included in the image area information,  
into the image data; and

attaching the coordinates of the rectangle, as a tag information, to the image data that  
is embedded with the color information.

Claim 33 (New): The image processing method according to claim 32, further  
comprising:

extracting the tag information out of the image data that is attached with the tag  
information; and

processing the image information based on the tag information that is extracted by the  
extracting unit.

Claim 34 (New): A computer readable recording medium that stores instructions of a  
computer program, which when executed by a computer results in performance of steps  
comprising:

converting image area information, which includes color information, edge  
information, and halftone information of an input image data, to coordinates of a rectangle;

embedding the color information, which is included in the image area information,  
into the image data; and

attaching the coordinates of the rectangle, as a tag information, to the image data that  
is embedded with the color information.

Claim 35 (New): The computer readable recording medium according to claim 34,  
further comprising:

extracting the tag information out of the image data that is attached with the tag information; and

processing the image information based on the tag information that is extracted by the extracting unit.